



1764

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant: Roger R. Lesieur  
Serial No.: 09/321,390  
Filed: May 27, 1999  
For: "Compact Light Weight Autothermal Reformer Assembly"

Docket No.: C-2267  
Group: 1764  
Examiner: B. Ridley

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Responsive to the Notice of Allowability mailed January 7, 2004, enclosed is an amendment E filed under 37CFR 1.312. Please charge any fees incurred in connection with entry of this amendment to Special Account No. 50-1307, Order No. C-2267. A duplicate copy of this letter is enclosed.

Respectfully submitted,

William W. Jones  
Attorney for Applicant  
Reg. No. 24,607  
6 Juniper Lane  
Madison, CT 06443  
(203) 245-2418

Date: 1-15-04

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231, on

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Signature

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Date



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**37 CFR 1.312 AMENDMENT E**

Hon. Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Dear Sir:

This is responsive to the Notice of Allowability dated January 7, 2004. This is an amendment after allowance as provided by 37 CFR 1.312. Please amend the above-identified application as follows.

**IN THE CLAIMS:**

Please add the following additional claims.

23. The autothermal reformer assembly of Claim 13 wherein said catalyst bed includes a noble metal and calcium oxide.

24. The autothermal reformer assembly of Claim 13 wherein said foam catalyst bed comprises at least two catalyzed regions wherein each region has a different catalyst composition.

25. The autothermal reformer assembly of Claim 24 wherein a first region of said foam catalyst bed contains a noble metal catalyst in combination with calcium oxide.

26. The autothermal reformer assembly of Claim 25 wherein a second region of said foam catalyst bed contains a base metal catalyst in combination with calcium oxide.

27. The autothermal reformer assembly of Claim 26 wherein said first region of said foam catalyst bed contains a platinum catalyst, and said second region of said foam catalyst bed contains a nickel catalyst.

28. The autothermal reformer assembly of Claim 25 wherein said first region of said foam catalyst bed contains an iron oxide/calcium oxide catalyst mixture and said second region of said foam catalyst bed contains a nickel catalyst.